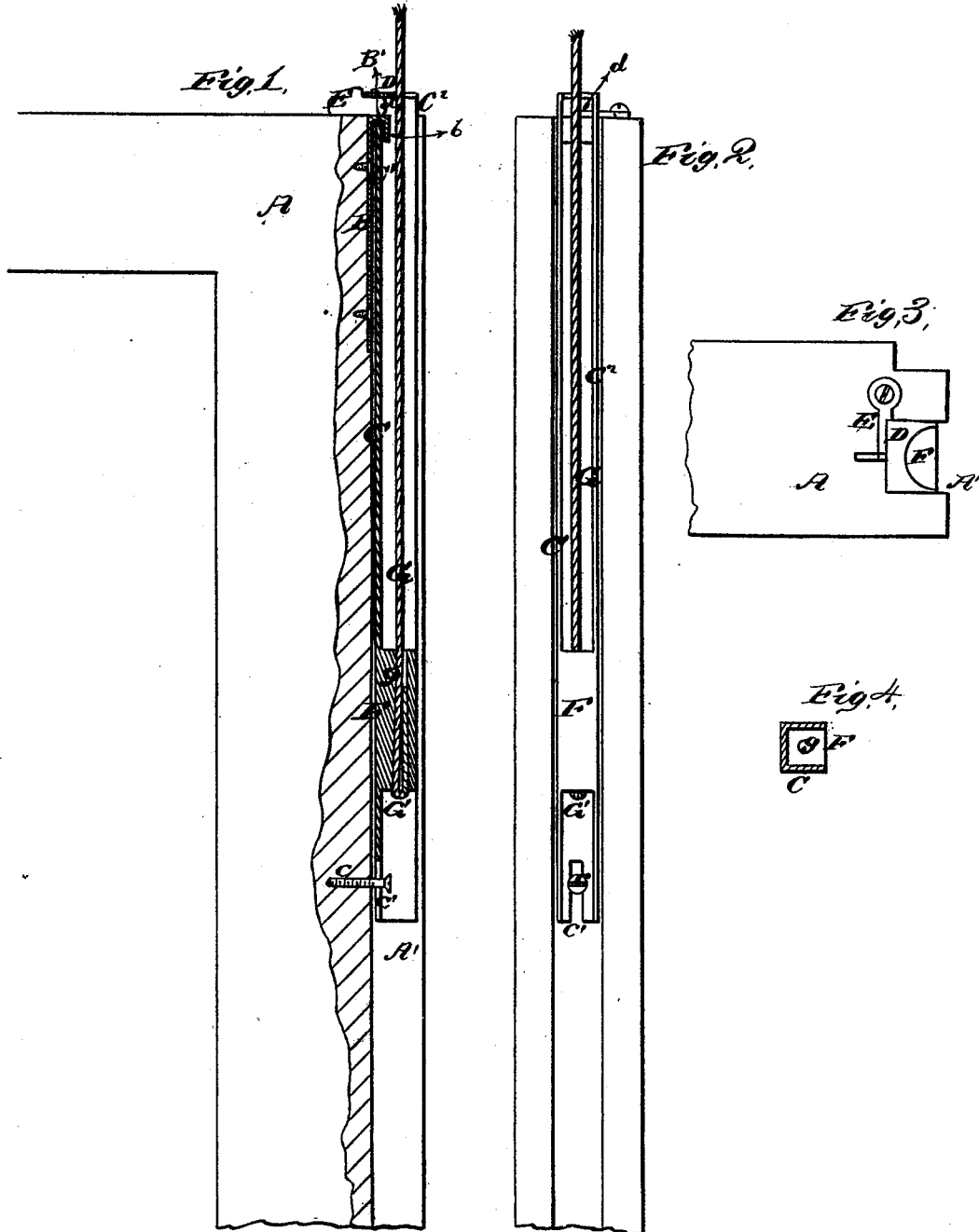


N. HOLMES.

SASH-CORD FASTENER.

No. 189,560.

Patented April 17, 1877.



WITNESSES
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UNITED STATES PATENT OFFICE.

NELSON HOLMES, OF YPSILANTI, MICHIGAN.

IMPROVEMENT IN SASH-CORD FASTENERS.

Specification forming part of Letters Patent No. **189,560**, dated April 17, 1877; application filed February 24, 1877.

To all whom it may concern:

Be it known that I, NELSON HOLMES, of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented a new and valuable Improvement in Window-Sash Cord-Fasteners; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical section of my cord-fastener applied to a window-sash, and Fig. 2 is a front or edge view thereof. Figs. 3 and 4 are detail views.

This invention relates to devices for attaching sash-cords to window-sashes; and it consists in the employment, in the sash-groove, of a case having at its lower end a tubular block for the reception of the cord, and recessed at its upper end to receive a catch, the recessed part abutting against a lip in a stationary plate attached to the sash, as hereinafter more fully set forth and definitely claimed.

In the accompanying drawing, A designates one of the upper corners of a window-sash, which is vertically grooved on the outside, in the usual manner, for the reception of the sash-cord. Within the upper part of this groove or channel A' a vertical plate of metal, B, is fixed to said sash, said plate being provided at its upper end with a flange, B', having a downward lip, b. C designates a vertical metallic casing, which sets within said groove or channel A', and has the upper part of its back piece C¹ recessed so as to set under flange B', and behind lip b, the upper ends of its side pieces C² C³ being extended above the same. To said upper ends of said side pieces I attach rigidly a top piece, D, un-

der which is an open space, d. E is a catch or hook, pivoted to the top of said sash, and adapted to be turned into said space d. The lower end of back piece C¹ is slotted at c' from the bottom upward, so as to work over screw or stud c, fixed to sash A. F designates a tubular block, formed in one piece with casing C, and G designates an ordinary sash-cord, secured to said block by passing its doubled lower end G' down into the upwardly tapering passage or tube g of said block. An upward draft on said sash-cord produces a clamping or binding action of said lower end G' against the inside of said block F, fastening said cord thereto.

When the upper end of back piece C¹ touches the under side of flange B', and the catch E is turned under top piece D, the said casing C is securely locked against casual displacement. To remove said casing, turn said catch back out of engagement, slide said casing down until the upper end of said back piece C¹ is below lip b; then bring said upper end forward or outward, so as to avoid engaging with said lip, and, finally, slide said casing upward to free its lower end from the head of stud or screw c. There is then no obstacle to the removal of said casing. Its attachment is effected by reversing the above operations.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with a grooved sash, of the recessed box or case C, having the tubular block F and catch E, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

NELSON HOLMES.

Witnesses:

E. D. HOLMES,
C. R. WHITMAN.